

=> d his full

(FILE 'HOME' ENTERED AT 09:48:13 ON 07 SEP 2006)

FILE 'HCAPLUS' ENTERED AT 09:48:36 ON 07 SEP 2006

L1 E US2005164019/PN
1 SEA ABB=ON PLU=ON US2005164019/PN
SEL RN

FILE 'REGISTRY' ENTERED AT 09:49:32 ON 07 SEP 2006

L2 56 SEA ABB=ON PLU=ON (120-12-7/BI OR 1450-63-1/BI OR
153521-90-5/BI OR 191-07-1/BI OR 198-55-0/BI OR 25067-59-
8/BI OR 25190-62-9/BI OR 25233-34-5/BI OR 26009-24-5/BI
OR 26498-02-2/BI OR 28802-91-7/BI OR 517-51-1/BI OR
7440-09-7/BI OR 7440-20-2/BI OR 7440-65-5/BI OR 859842-50
-5/BI OR 9003-47-8/BI OR 91-64-5/BI OR 95270-88-5/BI OR
106-95-6/BI OR 117944-65-7/BI OR 12261-48-2/BI OR
1312-43-2/BI OR 1314-13-2/BI OR 1327-33-9/BI OR 1332-29-2
/BI OR 13400-13-0/BI OR 13963-57-0/BI OR 14098-41-0/BI
OR 14405-45-9/BI OR 148-24-3/BI OR 150477-54-6/BI OR
17455-13-9/BI OR 230950-18-2/BI OR 2487-90-3/BI OR
50926-11-9/BI OR 51325-05-4/BI OR 68167-86-2/BI OR
7429-90-5/BI OR 7439-93-2/BI OR 7439-95-4/BI OR 7440-22-4
/BI OR 7440-23-5/BI OR 7440-24-6/BI OR 7440-31-5/BI OR
7440-39-3/BI OR 7440-66-6/BI OR 7440-67-7/BI OR 7440-70-2
/BI OR 7440-74-6/BI OR 75507-25-4/BI OR 7789-23-3/BI OR
827-54-3/BI OR 859842-49-2/BI OR 98766-00-8/BI OR
998-30-1/BI)

FILE 'HCAPLUS' ENTERED AT 09:49:52 ON 07 SEP 2006

L3 1 SEA ABB=ON PLU=ON L1 AND L2

FILE 'REGISTRY' ENTERED AT 10:03:25 ON 07 SEP 2006

L4 STRUCTURE
L6 STRUCTURE
L11 4 SEA SSS SAM L4 AND L6
L12 642 SEA SSS FUL L4 AND L6
SAV L12 YAM696/A

FILE 'HCAPLUS' ENTERED AT 11:57:45 ON 07 SEP 2006

L13 329 SEA ABB=ON PLU=ON L12
L14 167 SEA ABB=ON PLU=ON L13 AND USES/RL
L15 21 SEA ABB=ON PLU=ON L14 AND DEV/RL
L16 34 SEA ABB=ON PLU=ON L13 AND ELECTRIC PHENOMENA/SC,SX
L17 26 SEA ABB=ON PLU=ON L16 AND USES/RL
L18 14 SEA ABB=ON PLU=ON L17 AND DEV/RL
L19 3 SEA ABB=ON PLU=ON L13 AND (ELECTROLUMIN? OR ORGANOLUMIN?
? OR (ELECTRO OR ORGANO OR ORG#) (2A) LUMIN? OR LIGHT
(2A) (EMISSION? OR EMIT?))
L20 2 SEA ABB=ON PLU=ON L13 (L) CHARG? (2A) TRANSFER?
L21 5 SEA ABB=ON PLU=ON L13 AND CHARG? (2A) TRANSFER?
L22 6 SEA ABB=ON PLU=ON L13 AND PHOTOCHEM?/SC,SX

FILE 'REGISTRY' ENTERED AT 12:25:28 ON 07 SEP 2006

L24 21 SEA ABB=ON PLU=ON L12 AND A1/PG

FILE 'HCAPLUS' ENTERED AT 12:26:12 ON 07 SEP 2006

L25 8 SEA ABB=ON PLU=ON L24
L26 70 SEA ABB=ON PLU=ON L13 AND (LI OR LITHIUM OR SODIUM OR
NA OR POTASSIUM OR K OR RUBIDIUM OR RB OR CESIUM OR CS
OR FRANCIUM OR FR)
L27 2 SEA ABB=ON PLU=ON L26 AND CHARG? (2A) TRANSFER?
L28 7 SEA ABB=ON PLU=ON L26 AND ?LUMIN?
L29 41 SEA ABB=ON PLU=ON L15 OR L18 OR L19 OR L20 OR L21 OR
L22 OR L25 OR L27 OR L28
L30 39 SEA ABB=ON PLU=ON L29 AND (1840-2004)/PRY,PY,AY

EIC 1700 search

MEY

=> file reg

FILE 'REGISTRY' ENTERED AT 12:37:52 ON 07 SEP 2006

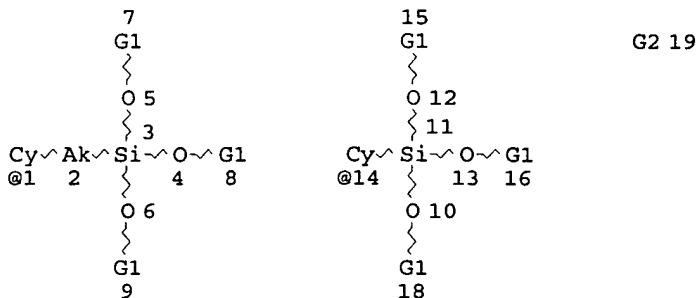
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=> d l29 que stat

L4 STR



VAR G1=H/AK

VAR G2=1/14

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS PCY AT 1

GGCAT IS PCY AT 14

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

L6 STR

M 1

NODE ATTRIBUTES:

NSPEC IS RC AT 1

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 1

STEREO ATTRIBUTES: NONE

L12 642 SEA FILE=REGISTRY SSS FUL L4 AND L6

L13 329 SEA FILE=HCAPLUS ABB=ON PLU=ON L12

L14 167 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND USES/RL

L15 21 SEA FILE=HCAPLUS ABB=ON PLU=ON L14 AND DEV/RL

L16 34 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND ELECTRIC
PHENOMENA/SC, SX

L17 26 SEA FILE=HCAPLUS ABB=ON PLU=ON L16 AND USES/RL

L18 14 SEA FILE=HCAPLUS ABB=ON PLU=ON L17 AND DEV/RL

L19 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND (ELECTROLUM!N?
OR ORGANOLUM!N? OR (ELECTRO OR ORGANO OR ORG#) (2A)
LUM!N? OR LIGHT (2A) (EMISSION? OR EMIT?))

L20 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 (L) CHARG? (2A)
TRANSFER?

L21 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND CHARG? (2A)
TRANSFER?

L22 6 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND PHOTOCHEM?/SC,SX

L24 21 SEA FILE=REGISTRY ABB=ON PLU=ON L12 AND A1/PG

L25 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L24

L26 70 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND (LI OR LITHIUM
OR SODIUM OR NA OR POTASSIUM OR K OR RUBIDIUM OR RB OR
CESIUM OR CS OR FRANCIUM OR FR)

L27 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L26 AND CHARG? (2A)
TRANSFER?

L28 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L26 AND ?LUMIN?

L29 41 SEA FILE=HCAPLUS ABB=ON PLU=ON L15 OR L18 OR L19 OR
L20 OR L21 OR L22 OR L25 OR L27 OR L28

=> file hcaplus

FILE 'HCAPLUS' ENTERED AT 12:38:03 ON 07 SEP 2006
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=> d l29 1-41 ibib abs hitstr hitind

L29 ANSWER 1 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:252468 HCAPLUS

TITLE: Modified electrodes prepared from ferrocene
functionalized silicate xerogels: analysis of
the electrochemical response in isotropic and
fractal structural systems

AUTHOR(S): Audebert, P.; Miomandre, F.; Sallard, S.

CORPORATE SOURCE: Laboratoire de Photophysique et Photochimie
Supramoléculaires et Macromoléculaires, UMR CNRS
8531, Ecole Normale Supérieure de Cachan,
Cachan, 94230, Fr.

SOURCE: Journal of Nanoscience and Nanotechnology
(2006), 6(2), 396-400

CODEN: JNNOAR; ISSN: 1533-4880

PUBLISHER: American Scientific Publishers

DOCUMENT TYPE: Journal

LANGUAGE: English

AB New xerogels functionalized by ferrocenes as redox probes were
prepd. using various types of catalysis. The anal. of the
electrochem. response in the case of modified electrodes allows the
authors to get an insight into the gel nanostructure which is
isotropic in the case of acidic catalysis, and fractal in the case
of fluoride catalysis, provided that the amt. of functionalized
silanes is not too high. Indeed the results of electrochem.
measurement prove that the fractality of functionalized hybrid SiO₂
is general in the case of basic catalysis, except in the case of
very high functional moieties loading, where the electrode become
essentially org. and isotropic. However, in the case of acidic
catalysis, whatever the amt. of org. material, the hybrid gel
remains isotropic, and a classical electron pseudo-diffusive
behavior is obsd. The diffusion coeff. values extd. from the
current-time slopes do not vary monotonically with the amt. of redox
probe in the case of fractal xerogel structures, which is indicative
that not all the functional moieties are electroactive in that case.

IT 501433-72-3

RL: DEV (Device component use); PEP (Physical, engineering
or chemical process); PRP (Properties); PYP (Physical process); PROC
(Process); USES (Uses)

(modified electrodes prepd. from ferrocene functionalized
silicate xerogels: anal. of electrochem. response in isotropic